



A high-level monthly briefing on operations and activities at the Department of Energy's Idaho National Engineering and Environmental Laboratory – Home of Science and Engineering Solutions. Work at the lab supports the Department's business lines of environmental quality, energy resources, national security and science.

■ NATIONAL SECURITY – INEEL Expertise Again in National Spotlight

The INEEL this month showcased three technologies at the "Assuring Our Energy Infrastructure: Solutions for the 21st Century" exposition in Washington D.C. The expo, sponsored by the U.S. Department of Energy, highlighted DOE technologies of interest to energy and utility officials from across the nation. The INEEL-developed technologies included DataTrace, a patent-pending pipeline damage and data transfer system; RapidOps, a field-deployable vulnerability assessment program; and a tool that identifies and models vulnerabilities of critical infrastructure components. Steve Fernandez, manager of National Security's Infrastructure Protection Systems, attended the expo representing the INEEL. This is the second time in four months the INEEL has been invited to demonstrate its Homeland Security capabilities for a national audience.

■ ENERGY RESOURCES – Idaho Hosts International Research

Fusion safety research at the INEEL is taking on a decidedly international feel. Since being named a "national user facility," the INEEL's Safety and Tritium Applied Research (STAR) facility has been opened up to increased scientific research from around the world. Scientists believe fusion can be an almost infinite source of energy, but learning to safely harness the reaction is a tremendous challenge. That's where the INEEL's STAR facility comes in, because it is designed to host experiments to determine how the fuel in a fusion reactor interacts with other materials used to produce a fusion reaction. Currently, the facility is hosting a collaboration between the United States and Japan to explore a number of fusion safety research initiatives.

■ SCIENCE – Three INEEL Researchers Recognized

Three researchers at the INEEL have been selected as "Fellows" for their contributions to the Lab in their areas of scientific expertise. The employees, Robert A. Anderl, Eric Greenwade and Terry A. Todd, were selected on the basis of having distinguished careers of broad technical contributions having national or international significance or an extraordinary impact on the technical success of the Laboratory, according to Richard Jacobsen, INEEL chief scientist. "Our senior management team is proud to add these distinguished leaders to the ranks of our Fellows at INEEL," says Jacobsen. "Only a very few employees are so honored." The "Fellow" designation is the highest professional designation within the INEEL's scientific community.

■ ENVIRONMENTAL QUALITY – Environmental Cleanup Progress Noted

The 200th shipment of transuranic waste rolled out of the INEEL early this month en route to the Waste Isolation Pilot Plant near Carlsbad, N.M. The three shipments that left brought the total volume of waste shipped to 1,191 cubic meters. The steady stream of shipments leaving the Radioactive Waste Management Complex will continue in order to meet the Idaho Settlement Agreement milestone to remove 3,100 cubic meters of stored transuranic waste from Idaho by the end of this year. Over 400 additional shipments are planned between now and then. The INEEL is currently on track with the recovery schedule to complete the project on time.

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